

104338451
AP20 Rec'd PCIN 034 AUG 2006

1

SEQUENCE LISTING

<110> City of Yokohama

<120> Peptidylarginine Deiminase 4 inhibitors

<130> FP-036PCT

<140>

<141>

<150> JP P2004-028467

<151> 2004-02-04

<160> 1

<170> PatentIn Ver. 2.1

<210> 1

<211> 663

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Gln Gly Thr Leu Ile Arg Val Thr Pro Glu Gln Pro Thr His
1 5 10 15

Ala Val Cys Val Leu Gly Thr Leu Thr Gln Leu Asp Ile Cys Ser Ser
20 25 30

Ala Pro Glu Asp Cys Thr Ser Phe Ser Ile Asn Ala Ser Pro Gly Val
35 40 45

Val Val Asp Ile Ala His Ser Pro Pro Ala Lys Lys Lys Ser Thr Gly
50 55 60

Ser Ser Thr Trp Pro Leu Asp Pro Gly Val Glu Val Thr Leu Thr Met
65 70 75 80

Lys Ala Ala Ser Gly Ser Thr Gly Asp Gln Lys Val Gln Ile Ser Tyr
85 90 95

Tyr Gly Pro Lys Thr Pro Pro Val Lys Ala Leu Leu Tyr Leu Thr Ala
100 105 110

Val Glu Ile Ser Leu Cys Ala Asp Ile Thr Arg Thr Gly Lys Val Lys
115 120 125

Pro Thr Arg Ala Val Lys Asp Gln Arg Thr Trp Thr Trp Gly Pro Cys
 130 135 140

Gly Gln Gly Ala Ile Leu Leu Val Asn Cys Asp Arg Asp Asn Leu Glu
 145 150 155 160

Ser Ser Ala Met Asp Cys Glu Asp Asp Glu Val Leu Asp Ser Glu Asp
 165 170 175

Leu Gln Asp Met Ser Leu Met Thr Leu Ser Thr Lys Thr Pro Lys Asp
 180 185 190

Phe Phe Thr Asn His Thr Leu Val Leu His Val Ala Arg Ser Glu Met
 195 200 205

Asp Lys Val Arg Val Phe Gln Ala Thr Arg Gly Lys Leu Ser Ser Lys
 210 215 220

Cys Ser Val Val Leu Gly Pro Lys Trp Pro Ser His Tyr Leu Met Val
 225 230 235 240

Pro Gly Gly Lys His Asn Met Asp Phe Tyr Val Glu Ala Leu Ala Phe
 245 250 255

Pro Asp Thr Asp Phe Pro Gly Leu Ile Thr Leu Thr Ile Ser Leu Leu
 260 265 270

Asp Thr Ser Asn Leu Glu Leu Pro Glu Ala Val Val Phe Gln Asp Ser
 275 280 285

Val Val Phe Arg Val Ala Pro Trp Ile Met Thr Pro Asn Thr Gln Pro
 290 295 300

Pro Gln Glu Val Tyr Ala Cys Ser Ile Phe Glu Asn Glu Asp Phe Leu
 305 310 315 320

Lys Ser Val Thr Thr Leu Ala Met Lys Ala Lys Cys Lys Leu Thr Ile
 325 330 335

Cys Pro Glu Glu Glu Asn Met Asp Asp Gln Trp Met Gln Asp Glu Met
 340 345 350

Glu Ile Gly Tyr Ile Gln Ala Pro His Lys Thr Leu Pro Val Val Phe
 355 360 365

Asp Ser Pro Arg Asn Arg Gly Leu Lys Glu Phe Pro Ile Lys Arg Val
 370 375 380

Met Gly Pro Asp Phe Gly Tyr Val Thr Arg Gly Pro Gln Thr Gly Gly
 385 390 395 400
 Ile Ser Gly Leu Asp Ser Phe Gly Asn Leu Glu Val Ser Pro Pro Val
 405 410 415
 Thr Val Arg Gly Lys Glu Tyr Pro Leu Gly Arg Ile Leu Phe Gly Asp
 420 425 430
 Ser Cys Tyr Pro Ser Asn Asp Ser Arg Gln Met His Gln Ala Leu Gln
 435 440 445
 Asp Phe Leu Ser Ala Gln Gln Val Gln Ala Pro Val Lys Leu Tyr Ser
 450 455 460
 Asp Trp Leu Ser Val Gly His Val Asp Glu Phe Leu Ser Phe Val Pro
 465 470 475 480
 Ala Pro Asp Arg Lys Gly Phe Arg Leu Leu Leu Ala Ser Pro Arg Ser
 485 490 495
 Cys Tyr Lys Leu Phe Gln Glu Gln Gln Asn Glu Gly His Gly Glu Ala
 500 505 510
 Leu Leu Phe Glu Gly Ile Lys Lys Lys Gln Gln Lys Ile Lys Asn
 515 520 525
 Ile Leu Ser Asn Lys Thr Leu Arg Glu His Asn Ser Phe Val Glu Arg
 530 535 540
 Cys Ile Asp Trp Asn Arg Glu Leu Leu Lys Arg Glu Leu Gly Leu Ala
 545 550 555 560
 Glu Ser Asp Ile Ile Asp Ile Pro Gln Leu Phe Lys Leu Lys Glu Phe
 565 570 575
 Ser Lys Ala Glu Ala Phe Phe Pro Asn Met Val Asn Met Leu Val Leu
 580 585 590
 Gly Lys His Leu Gly Ile Pro Lys Pro Phe Gly Pro Val Ile Asn Gly
 595 600 605
 Arg Cys Cys Leu Glu Glu Lys Val Cys Ser Leu Leu Glu Pro Leu Gly
 610 615 620
 Leu Gln Cys Thr Phe Ile Asn Asp Phe Phe Thr Tyr His Ile Arg His
 625 630 635 640

Gly Glu Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Ser Phe
645 650 655

Lys Trp Trp Asn Met Val Pro
660